

PF-0651-1 DIV

<110> BANDMAN, Olga; HILLMAN, Jennifer L.
TANG, Y. Tom; LAL, Preeti G.
YUE, Henry; AZIMZAI, Yalda
BAUGHN, Mariah R.; LU, Dyung Aina M.

<120> HUMAN PEPTIDASES

<130> PF-0651-1 DIV

<140> To Be Assigned

<141> Herewith

<150> US 09/889,238

<151> 2002-01-24

<150> PCT/US00/00641

<151> 2000-01-11

<150> US 60/172,247

<151> 1999-01-11

<150> US 60/132,253

<151> 1999-05-03

<150> US 60/136,653

<151> 1999-05-27

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<211> 762

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 155179CD1

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Asn	Ser	Thr	Glu	Phe	Val	Ser	Leu	Ala	Ser	Lys	Val	Lys	Asp	Ala
				20					25					30
Leu	Lys	Leu	Leu	Tyr	Ser	Gly	Val	Pro	Phe	Leu	Gly	Pro	Cys	His
				35					40					45
Lys	Glu	Ser	Ala	Val	Thr	Ala	Phe	Ser	Glu	Gly	Ser	Val	Ile	Ala
				50					55					60
Tyr	Tyr	Trp	Ser	Glu	Phe	Ser	Ile	Pro	Gln	His	Leu	Val	Glu	Glu
				65					70					75
Ala	Glu	Arg	Val	Met	Ala	Glu	Glu	Arg	Val	Val	Met	Leu	Pro	Pro
				80					85					90
Arg	Ala	Arg	Ser	Leu	Lys	Ser	Phe	Val	Val	Thr	Ser	Val	Val	Ala
				95					100					105
Phe	Pro	Thr	Asp	Ser	Lys	Thr	Val	Gln	Arg	Thr	Gln	Asp	Asn	Ser
				110					115					120
Cys	Ser	Phe	Gly	Leu	His	Ala	Arg	Gly	Val	Glu	Leu	Met	Arg	Phe
				125					130					135
Thr	Thr	Pro	Gly	Phe	Pro	Asp	Ser	Pro	Tyr	Pro	Ala	His	Ala	Arg

	140		145		150
Cys Gln Trp Ala	Leu Arg Gly Asp Ala	Asp Ser Val Leu Ser	Leu		
	155		160		165
Thr Phe Arg Ser	Phe Asp Leu Ala Ser	Cys Asp Glu Arg Gly	Ser		
	170		175		180
Asp Leu Val Thr	Val Tyr Asn Thr Leu	Ser Pro Met Glu Pro	His		
	185		190		195
Ala Leu Val Gln	Leu Cys Gly Thr Tyr	Pro Pro Ser Tyr Asn	Leu		
	200		205		210
Thr Phe His Ser	Ser Gln Asn Val Leu	Leu Ile Thr Leu Ile	Thr		
	215		220		225
Asn Thr Glu Arg	Arg His Pro Gly Phe	Glu Ala Thr Phe Phe	Gln		
	230		235		240
Leu Pro Arg Met	Ser Ser Cys Gly Gly	Arg Leu Arg Lys Ala	Gln		
	245		250		255
Gly Thr Phe Asn	Ser Pro Tyr Tyr Pro	Gly His Tyr Pro Pro	Asn		
	260		265		270
Ile Asp Cys Thr	Trp Asn Ile Glu Val	Pro Asn Asn Gln His	Val		
	275		280		285
Lys Val Arg Phe	Lys Phe Phe Tyr Leu	Leu Glu Pro Gly Val	Pro		
	290		295		300
Ala Gly Thr Cys	Pro Lys Asp Tyr Val	Glu Ile Asn Gly Glu	Lys		
	305		310		315
Tyr Cys Gly Glu	Arg Ser Gln Phe Val	Val Thr Ser Asn Ser	Asn		
	320		325		330
Lys Ile Thr Val	Arg Phe His Ser Asp	Gln Ser Tyr Thr Asp	Thr		
	335		340		345
Gly Phe Leu Ala	Glu Tyr Leu Ser Tyr	Asp Ser Ser Asp Pro	Cys		
	350		355		360
Pro Gly Gln Phe	Thr Cys Arg Thr Gly	Arg Cys Ile Arg Lys	Glu		
	365		370		375
Leu Arg Cys Asp	Gly Trp Ala Asp Cys	Thr Asp His Ser Asp	Glu		
	380		385		390
Leu Asn Cys Ser	Cys Asp Ala Gly His	Gln Phe Thr Cys Lys	Asn		
	395		400		405
Lys Phe Cys Lys	Pro Leu Phe Trp Val	Cys Asp Ser Val Asn	Asp		
	410		415		420
Cys Gly Asp Asn	Ser Asp Glu Gln Gly	Cys Ser Cys Pro Ala	Gln		
	425		430		435
Thr Phe Arg Cys	Ser Asn Gly Lys Cys	Leu Ser Lys Ser Gln	Gln		
	440		445		450
Cys Asn Gly Lys	Asp Asp Cys Gly Asp	Gly Ser Asp Glu Ala	Ser		
	455		460		465
Cys Pro Lys Val	Asn Val Val Thr Cys	Thr Lys His Thr Tyr	Arg		
	470		475		480
Cys Leu Asn Gly	Leu Cys Leu Ser Lys	Gly Asn Pro Glu Cys	Asp		
	485		490		495
Gly Lys Glu Asp	Cys Ser Asp Gly Ser	Asp Glu Lys Asp Cys	Asp		
	500		505		510
Cys Gly Leu Arg	Ser Phe Thr Arg Gln	Ala Arg Val Val Gly	Gly		
	515		520		525
Thr Asp Ala Asp	Glu Gly Glu Trp Pro	Trp Gln Val Ser Leu	His		
	530		535		540
Ala Leu Gly Gln	Gly His Ile Cys Gly	Ala Ser Leu Ile Ser	Pro		
	545		550		555
Asn Trp Leu Val	Ser Ala Ala His Cys	Tyr Ile Asp Asp Arg	Gly		
	560		565		570
Phe Arg Tyr Ser	Asp Pro Thr Gln Trp	Thr Ala Phe Leu Gly	Leu		
	575		580		585

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His	Asp	Gln	Ser	Gln	Arg	Ser	Ala	Pro	Gly	Val	Gln	Glu	Arg	Arg	590	595	600
Leu	Lys	Arg	Ile	Ile	Ser	His	Pro	Phe	Phe	Asn	Asp	Phe	Thr	Phe	605	610	615
Asp	Tyr	Asp	Ile	Ala	Leu	Leu	Glu	Leu	Glu	Lys	Pro	Ala	Glu	Tyr	620	625	630
Ser	Ser	Met	Val	Arg	Pro	Ile	Cys	Leu	Pro	Asp	Ala	Ser	His	Val	635	640	645
Phe	Pro	Ala	Gly	Lys	Ala	Ile	Trp	Val	Thr	Gly	Trp	Gly	His	Thr	650	655	660
Gln	Tyr	Gly	Gly	Thr	Gly	Ala	Leu	Ile	Leu	Gln	Lys	Gly	Glu	Ile	665	670	675
Arg	Val	Ile	Asn	Gln	Thr	Thr	Cys	Glu	Asn	Leu	Leu	Pro	Gln	Gln	680	685	690
Ile	Thr	Pro	Arg	Met	Met	Cys	Val	Gly	Phe	Leu	Ser	Gly	Gly	Val	695	700	705
Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Ser	Ser	Val	Glu	710	715	720
Ala	Asp	Gly	Arg	Ile	Phe	Gln	Ala	Gly	Val	Val	Ser	Trp	Gly	Asp	725	730	735
Gly	Cys	Ala	Gln	Arg	Asn	Lys	Pro	Gly	Val	Tyr	Thr	Arg	Leu	Pro	740	745	750
Leu	Phe	Arg	Asp	Trp	Ile	Lys	Glu	Asn	Thr	Gly	Val				755	760	

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<213> Homo sapiens

<220>

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Val	Gly	Val	Val	Arg	Asp	Gly	Lys	Val	Leu	Ala	Asn	Pro	Arg	Arg	20	25	30	
Thr	Tyr	Val	Thr	Pro	Pro	Gly	Thr	Gly	Phe	Leu	Pro	Gly	Asp	Thr	35	40	45	
Ala	Arg	His	His	Arg	Ala	Val	Ile	Leu	Asp	Leu	Leu	Gln	Glu	Ala	50	55	60	
Leu	Thr	Glu	Ser	Gly	Leu	Thr	Ser	Gln	Asp	Ile	Asp	Cys	Ile	Ala	65	70	75	
Tyr	Thr	Lys	Gly	Pro	Gly	Met	Gly	Ala	Pro	Leu	Val	Ser	Val	Ala	80	85	90	
Val	Val	Ala	Arg	Thr	Val	Ala	Gln	Leu	Trp	Asn	Lys	Pro	Leu	Val	95	100	105	
Gly	Val	Asn	His	Cys	Ile	Gly	His	Ile	Glu	Met	Gly	Arg	Leu	Ile	110	115	120	
Thr	Gly	Ala	Thr	Ser	Pro	Thr	Val	Leu	Tyr	Val	Ser	Gly	Gly	Asn	125	130	135	
Thr	Gln	Val	Ile	Ala	Tyr	Ser	Glu	His	Arg	Tyr	Arg	Ile	Phe	Gly	140	145	150	
Glu	Thr	Ile	Asp	Ile	Ala	Val	Gly	Asn	Cys	Leu	Asp	Arg	Phe	Ala	155	160	165	
Arg	Val	Leu	Lys	Ile	Ser	Asn	Asp	Pro	Ser	Pro	Gly	Tyr	Asn	Ile	170	175	180	

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Glu	Gln	Met	Ala	Lys	Arg	Gly	Lys	Lys	Leu	Val	Glu	Leu	Pro	Tyr	
				185					190					195	
Thr	Val	Lys	Gly	Met	Asp	Val	Ser	Phe	Ser	Gly	Ile	Leu	Ser	Phe	
				200					205					210	
Ile	Glu	Asp	Val	Ala	His	Arg	Met	Leu	Ala	Thr	Gly	Glu	Cys	Thr	
				215					220					225	
Pro	Glu	Asp	Leu	Cys	Phe	Ser	Leu	Gln	Glu	Thr	Val	Phe	Ala	Met	
				230					235					240	
Leu	Val	Glu	Ile	Thr	Glu	Arg	Ala	Met	Ala	His	Cys	Gly	Ser	Gln	
				245					250					255	
Glu	Ala	Leu	Ile	Val	Gly	Gly	Val	Gly	Cys	Asn	Val	Arg	Leu	Gln	
				260					265					270	
Glu	Met	Met	Ala	Thr	Met	Cys	Gln	Glu	Arg	Gly	Ala	Arg	Leu	Phe	
				275					280					285	
Ala	Thr	Asp	Glu	Arg	Phe	Cys	Ile	Asp	Asn	Gly	Ala	Met	Ile	Ala	
				290					295					300	
Gln	Ala	Gly	Trp	Glu	Met	Phe	Arg	Ala	Gly	His	Arg	Thr	Pro	Leu	
				305					310					315	
Ser	Asp	Ser	Gly	Val	Thr	Gln	Arg	Tyr	Arg	Thr	Asp	Glu	Val	Glu	
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Val	Thr	Trp	Arg	Asp											
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<223> Incyte ID No: 2879274CD1

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Gly	Ala	Leu	Ala	Ala	Ser	Ala	Pro	Val	Leu	Ala	Val	Ala	Gly	Leu	
				20					25					30	
Gly	Asp	Ser	Asn	Gln	Phe	Phe	Arg	Asp	Val	Thr	Ala	Asp	Phe	Glu	
				35					40					45	
Gly	Gln	Ser	Pro	Lys	Cys	Thr	Gln	Gly	Val	Arg	Glu	Ala	Phe	Arg	
				50					55					60	
Gln	Ile	Lys	Asp	Leu	Phe	Leu	Gln	Gly	Ala	Tyr	Asp	Thr	Val	Arg	
				65					70					75	
Trp	Glu	Phe	Gly	Thr	Cys	Gln	Pro	Leu	Ser	Asp	Glu	Lys	Asp	Leu	
				80					85					90	
Thr	Gln	Leu	Phe	Met	Phe	Ala	Arg	Asn	Ala	Phe	Thr	Val	Leu	Ala	
				95					100					105	
Met	Met	Asp	Tyr	Pro	Tyr	Pro	Thr	Asp	Phe	Leu	Gly	Pro	Leu	Pro	
				110					115					120	
Ala	Asn	Pro	Val	Lys	Val	Gly	Cys	Asp	Arg	Leu	Leu	Ser	Glu	Ala	
				125					130					135	
Gln	Arg	Ile	Thr	Gly	Leu	Arg	Ala	Leu	Ala	Gly	Leu	Val	Tyr	Asn	
				140					145					150	
Ala	Ser	Gly	Ser	Glu	His	Cys	Tyr	Asp	Ile	Tyr	Arg	Leu	Tyr	His	
				155					160					165	
Ser	Cys	Ala	Asp	Pro	Thr	Gly	Cys	Gly	Thr	Gly	Pro	Asp	Ala	Arg	
				170					175					180	
Ala	Trp	Asp	Tyr	Gln	Ala	Cys	Thr	Glu	Ile	Asn	Leu	Thr	Phe	Ala	
				185					190					195	

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Ser	Asn	Asn	Val	Thr	Asp	Met	Phe	Pro	Asp	Leu	Pro	Phe	Thr	Asp
				200					205					210
Glu	Leu	Arg	Gln	Arg	Tyr	Cys	Leu	Asp	Thr	Trp	Gly	Val	Trp	Pro
				215					220					225
Arg	Pro	Asp	Trp	Leu	Leu	Thr	Ser	Phe	Trp	Gly	Gly	Asp	Leu	Arg
				230					235					240
Ala	Ala	Ser	Asn	Ile	Ile	Phe	Ser	Asn	Gly	Asn	Leu	Asp	Pro	Trp
				245					250					255
Ala	Gly	Gly	Gly	Ile	Arg	Arg	Asn	Leu	Ser	Ala	Ser	Val	Ile	Ala
				260					265					270
Val	Thr	Ile	Gln	Gly	Gly	Ala	His	His	Leu	Asp	Leu	Arg	Ala	Ser
				275					280					285
His	Pro	Glu	Asp	Pro	Ala	Ser	Val	Val	Glu	Ala	Arg	Lys	Leu	Glu
				290					295					300
Ala	Thr	Ile	Ile	Gly	Glu	Trp	Val	Lys	Ala	Ala	Arg	Arg	Glu	Gln
				305					310					315
Gln	Pro	Ala	Leu	Arg	Gly	Gly	Pro	Arg	Leu	Ser	Leu			
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Leu	Pro	Thr	Asp	Pro	Leu	Leu	Leu	Ile	Leu	Ser	Phe	Leu	Asp	Tyr
				20					25					30
Arg	Asp	Leu	Ile	Asn	Cys	Cys	Tyr	Val	Ser	Arg	Arg	Leu	Ser	Gln
				35					40					45
Leu	Ser	Ser	His	Asp	Pro	Leu	Trp	Arg	Arg	His	Cys	Lys	Lys	Tyr
				50					55					60
Trp	Leu	Ile	Ser	Glu	Glu	Glu	Lys	Thr	Gln	Lys	Asn	Gln	Cys	Trp
				65					70					75
Lys	Ser	Leu	Phe	Ile	Asp	Thr	Tyr	Ser	Asp	Val	Gly	Arg	Tyr	Ile
				80					85					90
Asp	His	Tyr	Ala	Ala	Ile	Lys	Lys	Ala	Trp	Asp	Asp	Leu	Lys	Lys
				95					100					105
Tyr	Leu	Glu	Pro	Arg	Cys	Pro	Arg	Met	Val	Leu	Ser	Leu	Lys	Glu
				110					115					120
Gly	Ala	Arg	Glu	Glu	Asp	Leu	Asp	Ala	Val	Glu	Ala	Gln	Ile	Gly
				125					130					135
Cys	Lys	Leu	Pro	Asp	Asp	Tyr	Arg	Cys	Ser	Tyr	Arg	Ile	His	Asn
				140					145					150
Gly	Gln	Lys	Leu	Val	Val	Pro	Gly	Leu	Leu	Gly	Ser	Met	Ala	Leu
				155					160					165
Ser	Asn	His	Tyr	Arg	Ser	Glu	Asp	Leu	Leu	Asp	Val	Asp	Thr	Ala
				170					175					180
Ala	Gly	Gly	Phe	Gln	Gln	Arg	Gln	Gly	Leu	Lys	Tyr	Cys	Leu	Pro
				185					190					195
Leu	Thr	Phe	Cys	Ile	His	Thr	Gly	Leu	Ser	Gln	Tyr	Ile	Ala	Val
				200					205					210
Glu	Ala	Ala	Glu	Gly	Arg	Asn	Lys	Asn	Glu	Val	Phe	Tyr	Gln	Cys
				215					220					225

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Pro	Asp	Gln	Met	Ala	Arg	Asn	Pro	Ala	Ala	Ile	Asp	Met	Phe	Ile
				230					235					240
Ile	Gly	Ala	Thr	Phe	Thr	Asp	Trp	Phe	Thr	Ser	Tyr	Val	Lys	Asn
				245					250					255
Val	Val	Ser	Gly	Gly	Phe	Pro	Ile	Ile	Arg	Asp	Gln	Ile	Phe	Arg
				260					265					270
Tyr	Val	His	Asp	Pro	Glu	Cys	Val	Ala	Thr	Thr	Gly	Asp	Ile	Thr
				275					280					285
Val	Ser	Val	Ser	Thr	Ser	Phe	Leu	Pro	Glu	Leu	Ser	Ser	Val	His
				290					295					300
Pro	Pro	His	Tyr	Phe	Phe	Thr	Tyr	Arg	Ile	Arg	Ile	Glu	Met	Ser
				305					310					315
Lys	Asp	Ala	Leu	Pro	Glu	Lys	Ala	Cys	Gln	Leu	Asp	Ser	Arg	Tyr
				320					325					330
Trp	Arg	Ile	Thr	Asn	Ala	Lys	Gly	Asp	Val	Glu	Glu	Val	Gln	Gly
				335					340					345
Pro	Gly	Val	Val	Gly	Glu	Phe	Pro	Ile	Ile	Ser	Pro	Gly	Arg	Val
				350					355					360
Tyr	Glu	Tyr	Thr	Ser	Cys	Thr	Thr	Phe	Ser	Thr	Thr	Ser	Gly	Tyr
				365					370					375
Met	Glu	Gly	Tyr	Tyr	Thr	Phe	His	Phe	Leu	Tyr	Phe	Lys	Asp	Lys
				380					385					390
Ile	Phe	Asn	Val	Ala	Ile	Pro	Arg	Phe	His	Met	Ala	Cys	Pro	Thr
				395					400					405
Phe	Arg	Val	Ser	Ile	Ala	Arg	Leu	Glu	Met	Gly	Pro	Asp	Glu	Tyr
				410					415					420
Glu	Glu	Met	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Glu
				425					430					435
Asp	Asp	Asp	Ser	Ala	Asp	Met	Asp	Glu	Ser	Asp	Glu	Asp	Asp	Glu
				440					445					450
Glu	Glu	Arg	Arg	Arg	Arg	Val	Phe	Asp	Val	Pro	Ile	Arg	Arg	Arg
				455					460					465
Arg	Cys	Ser	Arg	Leu	Phe									
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<221> misc_feature

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Leu	Gly	Asp	Trp	Gly	Ala	Glu	Ala	Cys	Thr	Cys	Ser	Pro	Ser	His
				20					25					30
Pro	Gln	Asp	Ala	Phe	Cys	Asn	Ser	Asp	Ile	Gly	Lys	Arg	Ser	Trp
				35					40					45
Cys	Pro	Ala	Arg	Ala	Pro	Arg	Cys	Ser	Gln	Asp	Cys	Ser	Ala	Ala
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<220>

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Ala	Ile	Asp	Ser	Arg	Asp	Gly	Ala	Ser	Cys	Ala	Glu	Leu	Val	Ser
				20					25					30
Phe	Lys	His	Pro	His	Val	Ala	Asn	Pro	Arg	Leu	Gln	Met	Ala	Ser
				35					40					45
Pro	Glu	Glu	Lys	Cys	Gln	Gln	Val	Leu	Glu	Pro	Pro	Tyr	Asp	Glu
				50					55					60
Met	Phe	Ala	Ala	His	Leu	Arg	Cys	Thr	Tyr	Ala	Val	Gly	Asn	His
				65					70					75
Asp	Phe	Ile	Glu	Ala	Tyr	Lys	Cys	Gln	Thr	Val	Ile	Val	Gln	Ser
				80					85					90
Phe	Leu	Arg	Ala	Phe	Gln	Ala	His	Lys	Glu	Glu	Asn	Trp	Ala	Leu
				95					100					105
Pro	Val	Met	Tyr	Ala	Val	Ala	Leu	Asp	Leu	Arg	Val	Phe	Ala	Asn
				110					115					120
Asn	Ala	Asp	Gln	Gln	Leu	Val	Lys	Lys	Gly	Lys	Ser	Lys	Val	Gly
				125					130					135
Asp	Met	Leu	Glu	Lys	Ala	Ala	Glu	Leu	Leu	Met	Ser	Cys	Phe	Arg
				140					145					150
Val	Cys	Ala	Ser	Asp	Thr	Arg	Ala	Gly	Ile	Glu	Asp	Ser	Lys	Lys
				155					160					165
Trp	Gly	Met	Leu	Phe	Leu	Val	Asn	Gln	Leu	Phe	Lys	Ile	Tyr	Phe
				170					175					180
Lys	Ile	Asn	Lys	Leu	His	Leu	Cys	Lys	Pro	Leu	Ile	Arg	Ala	Ile
				185					190					195
Asp	Ser	Ser	Asn	Leu	Lys	Asp	Asp	Tyr	Ser	Thr	Ala	Gln	Arg	Val
				200					205					210
Thr	Tyr	Lys	Tyr	Tyr	Val	Gly	Arg	Lys	Ala	Met	Phe	Asp	Ser	Asp
				215					220					225
Phe	Lys	Gln	Ala	Glu	Glu	Tyr	Leu	Ser	Phe	Ala	Phe	Glu	His	Cys
				230					235					240
His	Arg	Ser	Ser	Gln	Lys	Asn	Lys	Arg	Met	Ile	Leu	Ile	Tyr	Leu
				245					250					255
Leu	Pro	Val	Lys	Met	Leu	Leu	Gly	His	Met	Pro	Thr	Val	Glu	Leu
				260					265					270
Leu	Lys	Lys	Tyr	His	Leu	Met	Gln	Phe	Ala	Glu	Val	Thr	Arg	Ala
				275					280					285
Val	Ser	Glu	Gly	Asn	Leu	Leu	Leu	Leu	His	Glu	Ala	Leu	Ala	Lys
				290					295					300
His	Glu	Ala	Phe	Phe	Ile	Arg	Cys	Gly	Ile	Phe	Leu	Ile	Leu	Glu
				305					310					315
Lys	Leu	Lys	Ile	Ile	Thr	Tyr	Arg	Asn	Leu	Phe	Lys	Lys	Val	Tyr
				320					325					330
Leu	Leu	Leu	Lys	Thr	His	Gln	Leu	Ser	Leu	Asp	Ala	Phe	Leu	Val
				335					340					345
Ala	Leu	Lys	Phe	Met	Gln	Val	Glu	Asp	Val	Asp	Ile	Asp	Glu	Val
				350					355					360
Gln	Cys	Ile	Leu	Ala	Asn	Leu	Ile	Tyr	Met	Gly	His	Val	Lys	Gly
				365					370					375
Tyr	Ile	Ser	His	Gln	His	Gln	Lys	Leu	Val	Val	Ser	Lys	Gln	Asn
				380					385					390
Pro	Phe	Pro	Pro	Leu	Ser	Thr	Val	Cys						
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20 25 30
Ser Thr Gly Lys Asp Leu Lys Leu Val Val Arg Ser Thr Asp Thr
35 40 45
Val Phe His Met Lys Arg Arg Leu His Ala Ala Glu Gly Val Glu
50 55 60
Pro Gly Ser Gln Arg Trp Phe Phe Ser Gly Arg Pro Leu Thr Asp
65 70 75
Lys Met Lys Phe Glu Glu Leu Lys Ile Pro Lys Asp Tyr Val Val
80 85 90
Gln Val Ile Val Ser Gln Pro Val Gln Asn Pro Thr Pro Val Glu
95 100 105
Asn

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<400> 8
Met Ser Asp Glu Asp Ser Cys Val Ala Cys Gly Ser Leu Arg Thr
1 5 10 15
Ala Gly Pro Gln Ala Gly Ala Pro Ser Pro Trp Pro Trp Glu Ala
20 25 30
Arg Leu Met His Gln Gly Gln Leu Ala Cys Gly Gly Ala Leu Val
35 40 45
Ser Glu Glu Ala Val Leu Thr Ala Ala His Cys Phe Ile Gly Arg
50 55 60
Gln Ala Pro Glu Glu Trp Ser Val Gly Leu Gly Thr Arg Pro Glu
65 70 75
Glu Trp Gly Leu Lys Gln Leu Ile Leu His Gly Ala Tyr Thr His
80 85 90
Pro Glu Gly Gly Tyr Asp Met Ala Leu Leu Leu Ala Gln Pro
95 100 105
Val Thr Leu Gly Ala Ser Leu Arg Pro Leu Cys Leu Pro Tyr Ala
110 115 120
Asp His His Leu Pro Asp Gly Glu Arg Gly Trp Val Leu Gly Arg
125 130 135
Ala Arg Pro Gly Ala Gly Ile Ser Ser Leu Gln Thr Val Pro Val
140 145 150
Thr Leu Leu Gly Pro Arg Ala Cys Ser Arg Leu His Ala Ala Pro
155 160 165

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Gly	Gly	Asp	Gly	Ser	Pro	Ile	Leu	Pro	Gly	Met	Val	Cys	Thr	Ser
				170					175					180
Ala	Val	Gly	Glu	Leu	Pro	Ser	Cys	Glu	Gly	Leu	Ser	Gly	Ala	Pro
				185					190					195
Leu	Val	His	Glu	Val	Arg	Gly	Thr	Trp	Phe	Leu	Ala	Gly	Leu	His
				200					205					210
Ser	Phe	Gly	Asp	Ala	Cys	Gln	Gly	Pro	Ala	Arg	Pro	Ala	Val	Phe
				215					220					225
Thr	Ala	Leu	Pro	Ala	Tyr	Glu	Asp	Trp	Val	Ser	Ser	Leu	Asp	Trp
				230					235					240
Gln	Val	Tyr	Phe	Ala	Glu	Glu	Pro	Glu	Pro	Glu	Ala	Glu	Pro	Gly
				245					250					255
Ser	Cys	Leu	Ala	Asn	Ile	Ser	Gln	Pro	Thr	Ser	Cys			
				260					265					

<210> 9

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3408908CD1

<400> 9

Met	Arg	Thr	Gln	Ser	Leu	Leu	Leu	Leu	Gly	Ala	Leu	Leu	Ala	Val
1				5					10					15
Gly	Ser	Gln	Leu	Pro	Ala	Val	Phe	Gly	Arg	Lys	Lys	Gly	Glu	Lys
				20					25					30
Ser	Gly	Gly	Cys	Pro	Pro	Asp	Asp	Gly	Pro	Cys	Leu	Leu	Ser	Val
				35					40					45
Pro	Asp	Gln	Cys	Val	Glu	Asp	Ser	Gln	Cys	Pro	Leu	Thr	Arg	Lys
				50					55					60
Cys	Cys	Tyr	Arg	Ala	Cys	Phe	Arg	Gln	Cys	Val	Pro	Arg	Val	Ser
				65					70					75
Val	Lys	Leu	Gly	Ser	Cys	Pro	Glu	Asp	Gln	Leu	Arg	Cys	Leu	Ser
				80					85					90
Pro	Met	Asn	His	Leu	Cys	Tyr	Lys	Asp	Ser	Asp	Cys	Ser	Gly	Lys
				95					100					105
Lys	Arg	Cys	Cys	His	Ser	Ala	Cys	Gly	Arg	Asp	Cys	Arg	Asp	Pro
				110					115					120
Ala	Arg	Gly												

<210> 10

<211> 513

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3772696CD1

<400> 10

Met	Lys	Arg	Leu	Leu	Leu	Leu	Cys	Leu	Phe	Phe	Ile	Thr	Phe	Ser
1				5					10					15
Ser	Ala	Phe	Pro	Leu	Val	Arg	Met	Thr	Glu	Asn	Glu	Glu	Asn	Met
				20					25					30
Gln	Leu	Ala	Gln	Ala	Tyr	Leu	Asn	Gln	Phe	Tyr	Ser	Leu	Glu	Ile

				35					40					45
Glu	Gly	Asn	His	Leu	Val	Gln	Ser	Lys	Asn	Arg	Ser	Leu	Ile	Asp
				50					55					60
Asp	Lys	Ile	Arg	Glu	Met	Gln	Ala	Phe	Phe	Gly	Leu	Thr	Val	Thr
				65					70					75
Gly	Lys	Leu	Asp	Ser	Asn	Thr	Leu	Glu	Ile	Met	Lys	Thr	Pro	Arg
				80					85					90
Cys	Gly	Val	Pro	Asp	Val	Gly	Gln	Tyr	Gly	Tyr	Thr	Leu	Pro	Gly
				95					100					105
Trp	Arg	Lys	Tyr	Asn	Leu	Thr	Tyr	Arg	Ile	Ile	Asn	Tyr	Thr	Pro
				110					115					120
Asp	Met	Ala	Arg	Ala	Ala	Val	Asp	Glu	Ala	Ile	Gln	Glu	Gly	Leu
				125					130					135
Glu	Val	Trp	Ser	Lys	Val	Thr	Pro	Leu	Lys	Phe	Thr	Lys	Ile	Ser
				140					145					150
Lys	Gly	Ile	Ala	Asp	Ile	Met	Ile	Ala	Phe	Arg	Thr	Arg	Val	His
				155					160					165
Gly	Arg	Cys	Pro	Arg	Tyr	Phe	Asp	Gly	Pro	Leu	Gly	Val	Leu	Gly
				170					175					180
His	Ala	Phe	Pro	Pro	Gly	Pro	Gly	Leu	Gly	Gly	Asp	Thr	His	Phe
				185					190					195
Asp	Glu	Asp	Glu	Asn	Trp	Thr	Lys	Asp	Gly	Ala	Gly	Phe	Asn	Leu
				200					205					210
Phe	Leu	Val	Ala	Ala	His	Glu	Phe	Gly	His	Ala	Leu	Gly	Leu	Ser
				215					220					225
His	Ser	Asn	Asp	Gln	Thr	Ala	Leu	Met	Phe	Pro	Asn	Tyr	Val	Ser
				230					235					240
Leu	Asp	Pro	Arg	Lys	Tyr	Pro	Leu	Ser	Gln	Asp	Asp	Ile	Asn	Gly
				245					250					255
Ile	Gln	Ser	Ile	Tyr	Gly	Gly	Leu	Pro	Lys	Val	Pro	Ala	Lys	Pro
				260					265					270
Lys	Glu	Pro	Thr	Ile	Pro	His	Ala	Cys	Asp	Pro	Asp	Leu	Thr	Phe
				275					280					285
Asp	Ala	Ile	Thr	Thr	Phe	Arg	Arg	Glu	Val	Met	Phe	Phe	Lys	Gly
				290					295					300
Arg	His	Leu	Trp	Arg	Ile	Tyr	Tyr	Asp	Ile	Thr	Asp	Val	Glu	Phe
				305					310					315
Glu	Leu	Ile	Ala	Ser	Phe	Trp	Pro	Ser	Leu	Pro	Ala	Asp	Leu	Gln
				320					325					330
Ala	Ala	Tyr	Glu	Asn	Pro	Arg	Asp	Lys	Ile	Leu	Val	Phe	Lys	Asp
				335					340					345
Glu	Asn	Phe	Trp	Met	Ile	Arg	Gly	Tyr	Ala	Val	Leu	Pro	Asp	Tyr
				350					355					360
Pro	Lys	Ser	Ile	His	Thr	Leu	Gly	Phe	Pro	Gly	Arg	Val	Lys	Lys
				365					370					375
Ile	Asp	Ala	Ala	Val	Cys	Asp	Lys	Thr	Thr	Arg	Lys	Thr	Tyr	Phe
				380					385					390
Phe	Val	Gly	Ile	Trp	Cys	Trp	Arg	Phe	Asp	Glu	Met	Thr	Gln	Thr
				395					400					405
Met	Asp	Lys	Gly	Phe	Pro	Gln	Arg	Val	Val	Lys	His	Phe	Pro	Gly
				410					415					420
Ile	Ser	Ile	Arg	Val	Asp	Ala	Ala	Phe	Gln	Tyr	Lys	Gly	Phe	Phe
				425					430					435
Phe	Phe	Ser	Arg	Gly	Ser	Lys	Gln	Phe	Glu	Tyr	Asn	Ile	Lys	Thr
				440					445					450
Lys	Asn	Ile	Thr	Arg	Ile	Met	Arg	Thr	Asn	Thr	Trp	Phe	Gln	Cys
				455					460					465
Lys	Glu	Pro	Lys	Asn	Ser	Ser	Phe	Gly	Phe	Asp	Ile	Asn	Lys	Glu
				470					475					480

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Lys	Ala	His	Ser	Gly	Gly	Ile	Lys	Ile	Leu	Tyr	His	Lys	Ser	Leu
				485					490					495
Ser	Leu	Phe	Ile	Phe	Gly	Ile	Val	His	Leu	Leu	Lys	Asn	Thr	Ser
				500					505					510
Ile	Tyr	Gln												

<210> 11
<211> 326
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5388674CD1

<400> 11

Met	Lys	Pro	Ser	Ser	Gln	Pro	Val	Ile	Ser	Leu	Asp	Pro	Leu	Pro
1				5					10					15
Cys	Ile	Leu	His	Gln	Ile	Gly	Ser	Pro	Pro	Thr	Leu	Arg	Leu	Pro
				20					25					30
Lys	Thr	Leu	Asn	Ser	Ser	Ser	Val	Ile	Leu	Thr	Glu	Arg	His	Pro
				35					40					45
Leu	Gln	Thr	Asn	Ala	Ala	Phe	Ile	Tyr	Ser	Pro	Leu	Val	Asn	Thr
				50					55					60
Gly	Ser	Leu	Gly	Asn	Thr	Arg	Ile	Ile	Ser	Glu	Glu	Tyr	Ile	Lys
				65					70					75
Trp	Leu	Thr	Gly	Tyr	Cys	Lys	Ala	Tyr	Phe	Tyr	Gly	Leu	Arg	Val
				80					85					90
Lys	Leu	Leu	Glu	Pro	Val	Pro	Val	Ser	Val	Thr	Arg	Cys	Ser	Phe
				95					100					105
Arg	Val	Asn	Glu	Asn	Thr	His	Asn	Leu	Gln	Ile	His	Ala	Gly	Asp
				110					115					120
Ile	Leu	Lys	Phe	Leu	Lys	Lys	Lys	Lys	Pro	Glu	Asp	Ala	Phe	Cys
				125					130					135
Val	Val	Gly	Ile	Thr	Met	Ile	Asp	Leu	Tyr	Pro	Arg	Asp	Ser	Trp
				140					145					150
Asn	Phe	Val	Phe	Gly	Gln	Ala	Ser	Leu	Thr	Asp	Gly	Val	Gly	Ile
				155					160					165
Phe	Ser	Phe	Ala	Arg	Tyr	Gly	Ser	Asp	Phe	Tyr	Ser	Met	His	Tyr
				170					175					180
Lys	Gly	Lys	Val	Lys	Lys	Leu	Lys	Lys	Thr	Ser	Ser	Ser	Asp	Tyr
				185					190					195
Ser	Ile	Phe	Asp	Asn	Tyr	Tyr	Ile	Pro	Glu	Ile	Thr	Ser	Val	Leu
				200					205					210
Leu	Leu	Arg	Ser	Cys	Lys	Thr	Leu	Thr	His	Glu	Ile	Gly	His	Ile
				215					220					225
Phe	Gly	Leu	Arg	His	Cys	Gln	Trp	Leu	Ala	Cys	Leu	Met	Gln	Gly
				230					235					240
Ser	Asn	His	Leu	Glu	Ala	Asp	Arg	Arg	Pro	Leu	Asn	Leu	Cys	
				245					250					255
Pro	Ile	Cys	Leu	His	Lys	Leu	Gln	Cys	Ala	Val	Gly	Phe	Ser	Ile
				260					265					270
Val	Glu	Arg	Tyr	Lys	Ala	Leu	Val	Arg	Trp	Ile	Asp	Asp	Glu	Ser
				275					280					285
Ser	Asp	Thr	Pro	Gly	Ala	Thr	Pro	Glu	His	Ser	His	Glu	Asp	Asn
				290					295					300
Gly	Asn	Leu	Pro	Lys	Pro	Val	Glu	Ala	Phe	Lys	Glu	Trp	Lys	Glu
				305					310					315

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Trp Ile Ile Lys Cys Leu Ala Val Leu Gln Lys
320 325

<210> 12
<211> 823
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1873102CD1

<400> 12
Met Gly Lys Lys Arg Thr Lys Gly Lys Thr Val Pro Ile Asp Asp
1 5 10 15
Ser Ser Glu Thr Leu Glu Pro Val Cys Arg His Ile Arg Lys Gly
20 25 30
Leu Glu Gln Gly Asn Leu Lys Lys Ala Leu Val Asn Val Glu Trp
35 40 45
Asn Ile Cys Gln Asp Cys Lys Thr Asp Asn Lys Val Lys Asp Lys
50 55 60
Ala Glu Glu Glu Thr Glu Glu Lys Pro Ser Val Trp Leu Cys Leu
65 70 75
Lys Cys Gly His Gln Gly Cys Gly Arg Asn Ser Gln Glu Gln His
80 85 90
Ala Leu Lys His Tyr Leu Thr Pro Arg Ser Glu Pro His Cys Leu
95 100 105
Val Leu Ser Leu Asp Asn Trp Ser Val Trp Phe Tyr Val Cys Asp
110 115 120
Asn Glu Val Gln Tyr Cys Ser Ser Asn Gln Leu Gly Gln Val Val
125 130 135
Asp Tyr Val Arg Lys Gln Ala Ser Ile Thr Thr Pro Lys Pro Ala
140 145 150
Glu Lys Asp Asn Gly Asn Ile Glu Leu Glu Asn Lys Lys Leu Glu
155 160 165
Lys Glu Ser Lys Asn Glu Gln Glu Arg Glu Lys Lys Glu Asn Met
170 175 180
Ala Lys Glu Asn Pro Pro Met Asn Ser Pro Cys Gln Ile Thr Val
185 190 195
Lys Gly Leu Ser Asn Leu Gly Asn Thr Cys Phe Phe Asn Ala Val
200 205 210
Met Gln Asn Leu Ser Gln Thr Pro Val Leu Arg Glu Leu Leu Lys
215 220 225
Glu Val Lys Met Ser Gly Thr Ile Val Lys Ile Glu Pro Pro Asp
230 235 240
Leu Ala Leu Thr Glu Pro Leu Glu Ile Asn Leu Glu Pro Pro Gly
245 250 255
Pro Leu Thr Leu Ala Met Ser Gln Phe Leu Asn Glu Met Gln Glu
260 265 270
Thr Lys Lys Gly Val Val Thr Pro Lys Glu Leu Phe Ser Gln Val
275 280 285
Cys Lys Lys Ala Val Arg Phe Lys Gly Tyr Gln Gln Gln Asp Ser
290 295 300
Gln Glu Leu Leu Arg Tyr Leu Leu Asp Gly Met Arg Ala Glu Glu
305 310 315
His Gln Arg Val Ser Lys Gly Ile Leu Lys Ala Phe Gly Asn Ser
320 325 330
Thr Glu Lys Leu Asp Glu Glu Leu Lys Asn Lys Val Lys Asp Tyr
335 340 345

Glu	Lys	Lys	Lys	Ser	Met	Pro	Ser	Phe	Val	Asp	Arg	Ile	Phe	Gly
				350					355					360
Gly	Glu	Leu	Thr	Ser	Met	Ile	Met	Cys	Asp	Gln	Cys	Arg	Thr	Val
				365					370					375
Ser	Leu	Val	His	Glu	Ser	Phe	Leu	Asp	Leu	Ser	Leu	Pro	Val	Leu
				380					385					390
Asp	Asp	Gln	Ser	Gly	Lys	Lys	Ser	Val	Asn	Asp	Lys	Asn	Leu	Lys
				395					400					405
Lys	Thr	Val	Glu	Asp	Glu	Asp	Gln	Asp	Ser	Glu	Glu	Glu	Lys	Asp
				410					415					420
Asn	Asp	Ser	Tyr	Ile	Lys	Glu	Arg	Ser	Asp	Ile	Pro	Ser	Gly	Thr
				425					430					435
Ser	Lys	His	Leu	Gln	Lys	Lys	Ala	Lys	Lys	Gln	Ala	Lys	Lys	Gln
				440					445					450
Ala	Lys	Asn	Gln	Arg	Arg	Gln	Gln	Lys	Ile	Gln	Gly	Lys	Val	Leu
				455					460					465
His	Leu	Asn	Asp	Ile	Cys	Thr	Ile	Asp	His	Pro	Glu	Asp	Ser	Glu
				470					475					480
Tyr	Glu	Ala	Glu	Met	Ser	Leu	Gln	Gly	Glu	Val	Asn	Ile	Lys	Ser
				485					490					495
Asn	His	Ile	Ser	Gln	Glu	Gly	Val	Met	His	Lys	Glu	Tyr	Cys	Val
				500					505					510
Asn	Gln	Lys	Asp	Leu	Asn	Gly	Gln	Ala	Lys	Met	Ile	Glu	Ser	Val
				515					520					525
Thr	Asp	Asn	Gln	Lys	Ser	Thr	Glu	Glu	Val	Asp	Met	Lys	Asn	Ile
				530					535					540
Asn	Met	Asp	Asn	Asp	Leu	Glu	Val	Leu	Thr	Ser	Ser	Pro	Thr	Arg
				545					550					555
Asn	Leu	Asn	Gly	Ala	Tyr	Leu	Thr	Glu	Gly	Ser	Asn	Gly	Glu	Val
				560					565					570
Asp	Ile	Ser	Asn	Gly	Phe	Lys	Asn	Leu	Asn	Leu	Asn	Ala	Ala	Leu
				575					580					585
His	Pro	Asp	Glu	Ile	Asn	Ile	Glu	Ile	Leu	Asn	Asp	Ser	His	Thr
				590					595					600
Pro	Gly	Thr	Lys	Val	Tyr	Glu	Val	Val	Asn	Glu	Asp	Pro	Glu	Thr
				605					610					615
Ala	Phe	Cys	Thr	Leu	Ala	Asn	Arg	Glu	Val	Phe	Asn	Thr	Asp	Glu
				620					625					630
Cys	Ser	Ile	Gln	His	Cys	Leu	Tyr	Gln	Phe	Thr	Arg	Asn	Glu	Lys
				635					640					645
Leu	Arg	Asp	Ala	Asn	Lys	Leu	Leu	Cys	Glu	Val	Cys	Thr	Arg	Arg
				650					655					660
Gln	Cys	Asn	Gly	Pro	Lys	Ala	Asn	Ile	Lys	Gly	Glu	Arg	Lys	His
				665					670					675
Val	Tyr	Thr	Asn	Ala	Lys	Lys	Gln	Met	Leu	Ile	Ser	Leu	Ala	Pro
				680					685					690
Pro	Val	Leu	Thr	Leu	His	Leu	Lys	Arg	Phe	Gln	Gln	Ala	Gly	Phe
				695					700					705
Asn	Leu	Arg	Lys	Val	Asn	Lys	His	Ile	Lys	Phe	Pro	Glu	Ile	Leu
				710					715					720
Asp	Leu	Ala	Pro	Phe	Cys	Thr	Leu	Lys	Cys	Lys	Asn	Val	Ala	Glu
				725					730					735
Glu	Asn	Thr	Arg	Val	Leu	Tyr	Ser	Leu	Tyr	Gly	Val	Val	Glu	His
				740					745					750
Ser	Gly	Thr	Met	Arg	Ser	Gly	His	Tyr	Thr	Ala	Tyr	Ala	Lys	Ala
				755					760					765
Arg	Thr	Ala	Asn	Ser	His	Leu	Ser	Asn	Leu	Val	Leu	His	Gly	Asp
				770					775					780
Ile	Pro	Gln	Asp	Phe	Glu	Met	Glu	Ser	Lys	Gly	Gln	Trp	Phe	His

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	785		790		795
Ile Ser Asp Thr	His Val Gln Ala Val	Pro Thr Thr Lys Val	Leu		
	800		805		810
Asn Ser Gln Ala	Tyr Leu Leu Phe Tyr	Glu Arg Ile Leu			
	815		820		

<210> 13
 <211> 404
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1920734CD1

<400> 13

Met Val Gln Leu Ala	Pro Ala Ala Ala Met	Asp Glu Val Thr Phe
1	5	10
Arg Ser Asp Thr Val	Leu Ser Asp Val His	Leu Tyr Thr Pro Asn
	20	25
His Arg His Leu Met	Val Arg Leu Asn Ser	Val Gly Gln Pro Val
	35	40
Phe Leu Ser Gln Phe	Lys Leu Leu Trp Ser	Gln Asp Ser Trp Thr
	50	55
Asp Ser Gly Ala Lys	Gly Gly Ser His Arg	Asp Val His Thr Lys
	65	70
Glu Pro Pro Ser Ala	Glu Thr Gly Ser Thr	Gly Ser Pro Pro Gly
	80	85
Ser Gly His Gly Asn	Glu Gly Phe Ser Leu	Gln Ala Gly Thr Asp
	95	100
Thr Thr Gly Gln Glu	Val Ala Glu Ala Gln	Leu Asp Glu Asp Gly
	110	115
Asp Leu Asp Val Val	Arg Arg Pro Arg Ala	Ala Ser Asp Ser Asn
	125	130
Pro Ala Gly Pro Leu	Arg Asp Lys Val His	Pro Met Ile Leu Ala
	140	145
Gln Glu Glu Asp Asp	Val Leu Gly Glu Glu	Ala Gln Gly Ser Pro
	155	160
His Asp Ile Ile Arg	Ile Glu His Thr Met	Ala Thr Pro Leu Glu
	170	175
Asp Val Gly Lys Gln	Val Trp Arg Gly Ala	Leu Leu Leu Ala Asp
	185	190
Tyr Ile Leu Phe Arg	Gln Asp Leu Phe Arg	Gly Cys Thr Ala Leu
	200	205
Glu Leu Gly Ala Gly	Thr Gly Leu Ala Ser	Ile Ile Ala Ala Thr
	215	220
Met Ala Arg Thr Val	Tyr Cys Thr Asp Val	Gly Ala Asp Leu Leu
	230	235
Ser Met Cys Gln Arg	Asn Ile Ala Leu Asn	Ser His Leu Ala Ala
	245	250
Thr Gly Gly Gly Ile	Val Arg Val Lys Glu	Leu Asp Trp Leu Lys
	260	265
Asp Asp Leu Cys Thr	Asp Pro Lys Val Pro	Phe Ser Trp Ser Gln
	275	280
Glu Glu Ile Ser Asp	Leu Tyr Asp His Thr	Thr Ile Leu Phe Ala
	290	295
Ala Glu Val Phe Tyr	Asp Asp Asp Leu Thr	Asp Ala Val Phe Lys
	305	310
Thr Leu Ser Arg Leu	Ala His Arg Leu Lys	Asn Ala Cys Thr Ala

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	320		325		330
Ile Leu Ser Val	Glu Lys Arg Leu Asn	Phe Thr Leu Arg His	Leu		
	335		340		345
Asp Val Thr Cys	Glu Ala Tyr Asp His	Phe Arg Ser Cys Leu	His		
	350		355		360
Ala Leu Glu Gln	Leu Thr Asp Gly Lys	Leu Arg Phe Val Val	Glu		
	365		370		375
Pro Val Glu Ala	Ser Phe Pro Gln Leu	Leu Val Tyr Glu Arg	Leu		
	380		385		390
Gln Gln Leu Glu	Leu Trp Lys Ile Ile	Ala Glu Pro Val Thr			
	395		400		

<210> 14

<211> 703

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2396858CD1

<400> 14

Met Ala Ala Ala Thr	Gly Asp Pro Gly Leu Ser Lys Leu Gln Phe	
1	5	10
Ala Pro Phe Ser Ser	Ala Leu Asp Val Gly Phe Trp His Glu Leu	15
	20	25
Thr Gln Lys Lys Leu	Asn Glu Tyr Arg Leu Asp Glu Ala Pro Lys	30
	35	40
Asp Ile Lys Gly Tyr	Tyr Tyr Asn Gly Asp Ser Ala Gly Leu Pro	45
	50	55
Ala Arg Leu Thr Leu	Glu Phe Ser Ala Phe Asp Met Ser Ala Pro	60
	65	70
Thr Pro Ala Arg Cys	Cys Pro Ala Ile Gly Thr Leu Tyr Asn Thr	75
	80	85
Asn Thr Leu Glu Ser	Phe Lys Thr Ala Asp Lys Lys Leu Leu Leu	90
	95	100
Glu Gln Ala Ala Asn	Glu Ile Trp Glu Ser Ile Lys Ser Gly Thr	105
	110	115
Ala Leu Glu Asn Pro	Val Leu Leu Asn Lys Phe Leu Leu Leu Thr	120
	125	130
Phe Ala Asp Leu Lys	Lys Tyr His Phe Tyr Tyr Trp Phe Cys Tyr	135
	140	145
Pro Ala Leu Cys Leu	Pro Glu Ser Leu Pro Leu Ile Gln Gly Pro	150
	155	160
Val Gly Leu Asp Gln	Arg Phe Ser Leu Lys Gln Ile Glu Ala Leu	165
	170	175
Glu Cys Ala Tyr Asp	Asn Leu Cys Gln Thr Glu Gly Val Thr Ala	180
	185	190
Leu Pro Tyr Phe Leu	Ile Lys Tyr Asp Glu Asn Met Val Leu Val	195
	200	205
Ser Leu Leu Lys His	Tyr Ser Asp Phe Phe Gln Gly Gln Arg Thr	210
	215	220
Lys Ile Thr Ile Gly	Val Tyr Asp Pro Cys Asn Leu Ala Gln Tyr	225
	230	235
Pro Gly Trp Pro Leu	Arg Asn Phe Leu Val Leu Ala Ala His Arg	240
	245	250
Trp Ser Ser Ser Phe	Gln Ser Val Glu Val Val Cys Phe Arg Asp	255
	260	265
Arg Thr Met Gln Gly	Ala Arg Asp Val Ala His Ser Ile Ile Phe	270

	275		280		285
Glu Val Lys Leu	Pro Glu Met Ala Phe	Ser Pro Asp Cys Pro	Lys		
	290		295		300
Ala Val Gly Trp	Glu Lys Asn Gln Lys	Gly Gly Met Gly Pro	Arg		
	305		310		315
Met Val Asn Leu	Ser Glu Cys Met Asp	Pro Lys Arg Leu Ala	Glu		
	320		325		330
Ser Ser Val Asp	Leu Asn Leu Lys Leu	Met Cys Trp Arg Leu	Val		
	335		340		345
Pro Thr Leu Asp	Leu Asp Lys Val Val	Ser Val Lys Cys Leu	Leu		
	350		355		360
Leu Gly Ala Gly	Thr Leu Gly Cys Asn	Val Ala Arg Thr Leu	Met		
	365		370		375
Gly Trp Gly Val	Arg His Ile Thr Phe	Val Asp Asn Ala Lys	Ile		
	380		385		390
Ser Tyr Ser Asn	Pro Val Arg Gln Pro	Leu Tyr Glu Phe Glu	Asp		
	395		400		405
Cys Leu Gly Gly	Gly Lys Pro Lys Ala	Leu Ala Ala Ala Asp	Arg		
	410		415		420
Leu Gln Lys Ile	Phe Pro Gly Val Asn	Ala Arg Gly Phe Asn	Met		
	425		430		435
Ser Ile Pro Met	Pro Gly His Pro Val	Asn Phe Ser Ser Val	Thr		
	440		445		450
Leu Glu Gln Ala	Arg Arg Asp Val Glu	Gln Leu Glu Gln Leu	Ile		
	455		460		465
Glu Ser His Asp	Val Val Phe Leu Leu	Met Asp Thr Arg Glu	Ser		
	470		475		480
Arg Trp Leu Pro	Ala Val Ile Ala Ala	Ser Lys Arg Lys Leu	Val		
	485		490		495
Ile Asn Ala Ala	Leu Gly Phe Asp Thr	Phe Val Val Met Arg	His		
	500		505		510
Gly Leu Lys Lys	Pro Lys Gln Gln Gly	Ala Gly Asp Leu Cys	Pro		
	515		520		525
Asn His Pro Val	Ala Ser Ala Asp Leu	Leu Gly Ser Ser Leu	Phe		
	530		535		540
Ala Asn Ile Pro	Gly Tyr Lys Leu Gly	Cys Tyr Phe Cys Asn	Asp		
	545		550		555
Val Val Ala Pro	Gly Asp Ser Thr Arg	Asp Arg Thr Leu Asp	Gln		
	560		565		570
Gln Cys Thr Val	Ser Arg Pro Gly Leu	Ala Val Ile Ala Gly	Ala		
	575		580		585
Leu Ala Val Glu	Leu Met Val Ser Val	Leu Gln His Pro Glu	Gly		
	590		595		600
Gly Tyr Ala Ile	Ala Ser Ser Ser Asp	Asp Arg Met Asn Glu	Pro		
	605		610		615
Pro Thr Ser Leu	Gly Leu Val Pro His	Gln Ile Arg Gly Phe	Leu		
	620		625		630
Ser Arg Phe Asp	Asn Val Leu Pro Val	Ser Leu Ala Phe Asp	Lys		
	635		640		645
Cys Thr Ala Cys	Ser Ser Lys Val Leu	Asp Gln Tyr Glu Arg	Glu		
	650		655		660
Gly Phe Asn Phe	Leu Ala Lys Val Phe	Asn Ser Ser His Ser	Phe		
	665		670		675
Leu Glu Asp Leu	Thr Gly Leu Thr Leu	Leu His Gln Glu Thr	Gln		
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Ala Ala Glu Ile	Trp Asp Met Ser Asp	Asp Glu Thr Ile			
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<210> 15

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<211> 145

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2634725CD1

<400> 15

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Leu	Ser	Pro	Gly	Thr	Gly	Ala	Leu	Ile	Leu	Gln	Lys	Gly	Glu	Ile	
				20					25					30	
Arg	Val	Ile	Asn	Gln	Thr	Thr	Cys	Glu	Asn	Leu	Leu	Pro	Gln	Gln	
				35					40					45	
Ile	Thr	Pro	Arg	Met	Met	Cys	Val	Gly	Phe	Leu	Ser	Gly	Gly	Val	
				50					55					60	
Asp	Ser	Cys	Gln	Val	Ala	Pro	Gly	Ala	Gly	Gly	Arg	Gln	Val	Gly	
				65					70					75	
Pro	Gly	Arg	Gly	Gly	Thr	Gly	Asp	Ser	Pro	Ala	Gly	Leu	Val	Ser	
				80					85					90	
Ala	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Ser	Ser	Val	Glu	Ala	Asp	
				95					100					105	
Gly	Arg	Ile	Phe	Gln	Ala	Gly	Val	Val	Ser	Trp	Gly	Asp	Gly	Cys	
				110					115					120	
Ala	Gln	Arg	Asn	Lys	Pro	Gly	Val	Tyr	Thr	Arg	Leu	Pro	Leu	Phe	
				125					130					135	
Arg	Asp	Trp	Ile	Lys	Glu	Asn	Thr	Gly	Val						
				140					145						

<210> 16

<211> 518

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2643110CD1

<400> 16

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Ser	Trp	Arg	Ser	Phe	Ser	Leu	Asn	Ser	Glu	Gly	Ala	Glu	Arg	Met	
				20					25					30	
Ala	Thr	Thr	Gly	Thr	Pro	Thr	Ala	Asp	Arg	Cys	Asp	Ala	Ala	Ala	
				35					40					45	
Thr	Asp	Asp	Pro	Ala	Ala	Arg	Phe	Gln	Val	Gln	Lys	His	Ser	Trp	
				50					55					60	
Asp	Gly	Leu	Arg	Ser	Ile	Ile	His	Gly	Ser	Arg	Lys	Tyr	Ser	Gly	
				65					70					75	
Leu	Ile	Val	Asn	Lys	Ala	Pro	His	Asp	Phe	Gln	Phe	Val	Gln	Lys	
				80					85					90	
Thr	Asp	Glu	Ser	Gly	Pro	His	Ser	His	Arg	Leu	Tyr	Tyr	Leu	Gly	
				95					100					105	
Met	Pro	Tyr	Gly	Ser	Arg	Glu	Asn	Ser	Leu	Leu	Tyr	Ser	Glu	Ile	
				110					115					120	
Pro	Lys	Lys	Val	Arg	Lys	Glu	Ala	Leu	Leu	Leu	Leu	Ser	Trp	Lys	
				125					130					135	
Gln	Met	Leu	Asp	His	Phe	Gln	Ala	Thr	Pro	His	His	Gly	Val	Tyr	

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	140		145		150
Ser Arg Glu Glu	Glu Leu Leu Arg Glu	Arg Lys Arg Leu Gly	Val		
	155		160		165
Phe Gly Ile Thr	Ser Tyr Asp Phe His	Ser Glu Ser Gly Leu	Phe		
	170		175		180
Leu Phe Gln Ala	Ser Asn Ser Leu Phe	His Cys Arg Asp Gly	Gly		
	185		190		195
Lys Asn Gly Phe	Met Val Ser Pro Met	Lys Pro Leu Glu Ile	Lys		
	200		205		210
Thr Gln Cys Ser	Gly Pro Arg Met Asp	Pro Lys Ile Cys Pro	Ala		
	215		220		225
Asp Pro Asp Phe	Phe Ser Phe Ile Asn	Asn Ser Asp Leu Trp	Val		
	230		235		240
Ala Asn Ile Glu	Thr Gly Glu Glu Arg	Arg Leu Thr Phe Cys	His		
	245		250		255
Gln Gly Leu Ser	Asn Val Leu Asp Asp	Pro Lys Ser Ala Gly	Val		
	260		265		270
Ala Thr Phe Val	Ile Gln Glu Glu Phe	Asp Arg Phe Thr Gly	Tyr		
	275		280		285
Trp Trp Cys Pro	Thr Ala Ser Trp Glu	Gly Ser Glu Gly Leu	Lys		
	290		295		300
Thr Leu Arg Ile	Leu Tyr Glu Glu Val	Asp Glu Ser Glu Val	Glu		
	305		310		315
Val Ile His Val	Pro Ser Pro Ala Leu	Glu Glu Arg Lys Thr	Asp		
	320		325		330
Ser Tyr Arg Tyr	Pro Arg Thr Gly Ser	Lys Asn Pro Lys Ile	Ala		
	335		340		345
Leu Lys Leu Ala	Glu Phe Gln Thr Asp	Ser Gln Gly Lys Ile	Val		
	350		355		360
Ser Thr Gln Glu	Lys Glu Leu Val Gln	Pro Phe Ser Ser Leu	Phe		
	365		370		375
Pro Lys Val Glu	Tyr Ile Ala Arg Ala	Gly Trp Thr Arg Asp	Gly		
	380		385		390
Lys Tyr Ala Trp	Ala Met Phe Leu Asp	Arg Pro Gln Gln Trp	Leu		
	395		400		405
Gln Leu Val Leu	Leu Pro Pro Ala Leu	Phe Ile Pro Ser Thr	Glu		
	410		415		420
Asn Glu Glu Gln	Arg Leu Ala Ser Ala	Arg Ala Val Pro Arg	Asn		
	425		430		435
Val Gln Pro Tyr	Val Val Tyr Glu Glu	Val Thr Asn Val Trp	Ile		
	440		445		450
Asn Val His Asp	Ile Phe Tyr Pro Phe	Pro Gln Ser Glu Gly	Glu		
	455		460		465
Asp Glu Leu Cys	Phe Leu Arg Ala Asn	Glu Cys Lys Thr Gly	Phe		
	470		475		480
Cys His Leu Tyr	Lys Val Thr Ala Val	Leu Lys Ser Gln Gly	Tyr		
	485		490		495
Asp Trp Ser Glu	Pro Phe Ser Pro Gly	Glu Gly Glu Gln Ser	Leu		
	500		505		510
Thr Asn Ala Val	Asp Ser Ser Arg				
	515				

<210> 17
 <211> 476
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> Incyte ID No: 2701396CD1

<400> 17

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				20					25					30
Leu	Glu	Ala	Tyr	Phe	Thr	Arg	Asn	His	Thr	Val	Leu	Gln	Gly	Thr
				35					40					45
Arg	Phe	Lys	Arg	Ala	Ile	Phe	Gln	Gly	Gln	Tyr	Cys	Arg	Asn	Phe
				50					55					60
Gly	Cys	Cys	Glu	Asp	Arg	Asp	Asp	Gly	Cys	Val	Thr	Glu	Phe	Tyr
				65					70					75
Ala	Ala	Asn	Ala	Leu	Cys	Tyr	Cys	Asp	Lys	Phe	Cys	Asp	Arg	Glu
				80					85					90
Asn	Ser	Asp	Cys	Cys	Pro	Asp	Tyr	Lys	Ser	Phe	Cys	Arg	Glu	Glu
				95					100					105
Lys	Glu	Trp	Pro	Pro	His	Thr	Gln	Pro	Trp	Tyr	Pro	Glu	Gly	Cys
				110					115					120
Phe	Lys	Asp	Gly	Gln	His	Tyr	Glu	Glu	Gly	Ser	Val	Ile	Lys	Glu
				125					130					135
Asn	Cys	Asn	Ser	Cys	Thr	Cys	Ser	Gly	Gln	Gln	Trp	Lys	Cys	Ser
				140					145					150
Gln	His	Val	Cys	Leu	Val	Arg	Ser	Glu	Leu	Ile	Glu	Gln	Val	Asn
				155					160					165
Lys	Gly	Asp	Tyr	Gly	Trp	Thr	Ala	Gln	Asn	Tyr	Ser	Gln	Phe	Trp
				170					175					180
Gly	Met	Thr	Leu	Glu	Asp	Gly	Phe	Lys	Phe	Arg	Leu	Gly	Thr	Leu
				185					190					195
Pro	Pro	Ser	Pro	Met	Leu	Leu	Ser	Met	Asn	Glu	Met	Thr	Ala	Ser
				200					205					210
Leu	Pro	Ala	Thr	Thr	Asp	Leu	Pro	Glu	Phe	Leu	Leu	Leu	Leu	Ile
				215					220					225
Asn	Gly	Leu	Asp	Gly	Leu	Met	Ala	His	Trp	Ile	Lys	Lys	Ile	Cys
				230					235					240
Ala	Ala	Ser	Trp	Ala	Phe	Ser	Thr	Ala	Ser	Val	Ala	Ala	Asp	Arg
				245					250					255
Ile	Ala	Ile	Gln	Ser	Lys	Gly	Arg	Tyr	Thr	Ala	Asn	Leu	Ser	Pro
				260					265					270
Gln	Asn	Leu	Ile	Ser	Cys	Cys	Ala	Lys	Asn	Arg	His	Gly	Cys	Asn
				275					280					285
Ser	Gly	Ser	Ile	Asp	Arg	Ala	Trp	Trp	Tyr	Leu	Arg	Lys	Arg	Gly
				290					295					300
Leu	Val	Ser	His	Ala	Cys	Tyr	Pro	Leu	Phe	Lys	Asp	Gln	Asn	Ala
				305					310					315
Thr	Asn	Asn	Gly	Cys	Ala	Met	Ala	Ser	Arg	Ser	Asp	Gly	Arg	Gly
				320					325					330
Lys	Arg	His	Ala	Thr	Lys	Pro	Cys	Pro	Asn	Asn	Val	Glu	Lys	Ser
				335					340					345
Asn	Arg	Ile	Tyr	Gln	Cys	Ser	Pro	Pro	Tyr	Arg	Val	Ser	Ser	Asn
				350					355					360
Glu	Thr	Glu	Ile	Met	Lys	Glu	Ile	Met	Gln	Asn	Gly	Pro	Val	Gln
				365					370					375
Ala	Ile	Met	Gln	Val	Arg	Glu	Asp	Phe	Phe	His	Tyr	Lys	Thr	Gly
				380					385					390
Ile	Tyr	Arg	His	Val	Thr	Ser	Thr	Asn	Lys	Glu	Ser	Glu	Lys	Tyr
				395					400					405
Arg	Lys	Leu	Gln	Thr	His	Ala	Val	Lys	Leu	Thr	Gly	Trp	Gly	Thr
				410					415					420

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Leu	Arg	Gly	Ala	Gln	Gly	Gln	Lys	Glu	Lys	Phe	Trp	Ile	Ala	Ala
				425					430					435
Asn	Ser	Trp	Gly	Lys	Ser	Trp	Gly	Glu	Asn	Gly	Tyr	Phe	Arg	Ile
				440					445					450
Leu	Arg	Gly	Val	Asn	Glu	Ser	Asp	Ile	Glu	Lys	Leu	Ile	Ile	Ala
				455					460					465
Ala	Trp	Gly	Gln	Leu	Thr	Ser	Ser	Asp	Glu	Pro				
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<210> 18

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3134404CD1

<400> 18

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Ala	Gln	Leu	Leu	Asn	Phe	Gly	Ala	Leu	Cys	Tyr	Gly	Arg	Gln	Leu
				20					25					30
Gln	Pro	Gly	Pro	Val	Arg	Phe	Pro	Asp	Arg	Arg	Gln	Glu	His	Phe
				35					40					45
Ile	Lys	Gly	Leu	Pro	Glu	Tyr	His	Val	Val	Gly	Pro	Val	Arg	Val
				50					55					60
Asp	Ala	Ser	Gly	His	Phe	Leu	Ser	Tyr	Gly	Leu	His	Tyr	Pro	Ile
				65					70					75
Thr	Ser	Ser	Arg	Arg	Lys	Arg	Asp	Leu	Asp	Gly	Ser	Glu	Asp	Trp
				80					85					90
Val	Tyr	Tyr	Arg	Ile	Ser	His	Glu	Glu	Lys	Asp	Leu	Phe	Phe	Asn
				95					100					105
Leu	Thr	Val	Asn	Gln	Gly	Phe	Leu	Ser	Asn	Ser	Tyr	Ile	Met	Glu
				110					115					120
Lys	Arg	Tyr	Gly	Asn	Leu	Ser	His	Val	Lys	Met	Met	Ala	Ser	Ser
				125					130					135
Ala	Pro	Leu	Cys	His	Leu	Ser	Gly	Thr	Val	Leu	Gln	Gln	Gly	Thr
				140					145					150
Arg	Val	Gly	Thr	Ala	Ala	Leu	Ser	Ala	Cys	His	Gly	Leu	Thr	Gly
				155					160					165
Phe	Phe	Gln	Leu	Pro	His	Gly	Asp	Phe	Phe	Ile	Glu	Pro	Val	Lys
				170					175					180
Lys	His	Pro	Leu	Val	Glu	Gly	Gly	Tyr	His	Pro	His	Ile	Val	Tyr
				185					190					195
Arg	Arg	Gln	Lys	Val	Pro	Glu	Thr	Lys	Glu	Pro	Thr	Cys	Gly	Leu
				200					205					210
Lys	Gly	Ile	Val	Thr	His	Met	Ser	Ser	Trp	Val	Glu	Glu	Ser	Val
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Leu	Phe	Phe	Trp											

<210> 19

<211> 3159

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 155179CB1

<400> 19

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<210> 20

<211> 1355

PF-0651-1 DIV

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2415780CB1

<400> 20

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<210> 21

<211> 1601

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2879274CB1

<400> 21

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<213> Homo sapiens

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<223> Incyte ID No: 1873102CB1

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<211> 1526

PF-0651-1 DIV

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<213> Homo sapiens

<220>

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<211> 2390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2396858CB1

<400> 32

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<210> 33

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<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 2634725CB1

<400> 33

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PF-0651-1 DIV

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<211> 2079
<212> DNA
<213> Homo sapiens

<220>
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<211> 1081
<212> DNA
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 3134404CB1

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tccgagtaga tgccagtggg cattttttgt catatggctt gcactatccc atcacgagca 420
gcaggaggaa gagagatttg gatggctcag aggactgggt gtactacaga atttctcacg 480
aggagaagga cctgtttttt aacttgacgg tcaatcaagg atttcttcc aatagctaca 540
tcatggagaa gagatatggg aacctctccc atgttaagat gatggcttcc tctgcccccc 600
tctgccatct cagtggcacg gttctacagc agggcaccag agttgggacg gcagccctca 660
gtgcctgcca tggactgact ggatttttcc aactaccaca tggagacttt ttcattgaac 720
ccgtgaagaa gcatccactg gttgagggag ggtaccaccc gcacatcggt tacaggaggc 780
agaaagtctc agaaaccaag gagccaacct gtggattaaa ggggtattgtg actcacatgt 840
cctcctgggt tgaagaatct gttttgttct tttggtagtt ttattaaaac atgacctatt 900
cttactcaag tctcttatct cctctgtatt cttttttttt taatatcttc atgacattca 960
aatctcttct gtattctctt gccagaaagt gtacattctt tttgcttgta taaacccttt 1020
cacttgtaaa tactcgagtc tctgcatatt cttaatgaga aggaaataaa agcatctttg 1080
c 1081

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<210> 37
<211> 1019

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g746413

<400> 37

Met	Gly	Ser	Lys	Arg	Gly	Ile	Ser	Ser	Arg	His	His	Ser	Leu	Ser
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Ser	Tyr	Glu	Ile	Met	Phe	Ala	Ala	Leu	Phe	Ala	Ile	Leu	Val	Val
				20					25					30
Leu	Cys	Ala	Gly	Leu	Ile	Ala	Val	Ser	Cys	Leu	Thr	Ile	Lys	Glu
				35					40					45
Ser	Gln	Arg	Gly	Ala	Ala	Leu	Gly	Gln	Ser	His	Glu	Ala	Arg	Ala
				50					55					60
Thr	Phe	Lys	Ile	Thr	Ser	Gly	Val	Thr	Tyr	Asn	Pro	Asn	Leu	Gln
				65					70					75
Asp	Lys	Leu	Ser	Val	Asp	Phe	Lys	Val	Leu	Ala	Phe	Asp	Leu	Gln
				80					85					90
Gln	Met	Ile	Asp	Glu	Ile	Phe	Leu	Ser	Ser	Asn	Leu	Lys	Asn	Glu
				95					100					105
Tyr	Lys	Asn	Ser	Arg	Val	Leu	Gln	Phe	Glu	Asn	Gly	Ser	Ile	Ile
				110					115					120
Val	Val	Phe	Asp	Leu	Phe	Phe	Ala	Gln	Trp	Val	Ser	Asp	Gln	Asn
				125					130					135
Val	Lys	Glu	Glu	Leu	Ile	Gln	Gly	Leu	Glu	Ala	Asn	Lys	Ser	Ser
				140					145					150
Gln	Leu	Val	Thr	Phe	His	Ile	Asp	Leu	Asn	Ser	Val	Asp	Ile	Leu
				155					160					165
Asp	Lys	Leu	Thr	Thr	Ser	His	Leu	Ala	Thr	Pro	Gly	Asn	Val	
				170					175					180
Ser	Ile	Glu	Cys	Leu	Pro	Gly	Ser	Ser	Pro	Cys	Thr	Asp	Ala	Leu
				185					190					195
Thr	Cys	Ile	Lys	Ala	Asp	Leu	Phe	Cys	Asp	Gly	Glu	Val	Asn	Cys
				200					205					210
Pro	Asp	Gly	Ser	Asp	Glu	Asp	Asn	Lys	Met	Cys	Ala	Thr	Val	Cys
				215					220					225
Asp	Gly	Arg	Phe	Leu	Leu	Thr	Gly	Ser	Ser	Gly	Ser	Phe	Gln	Ala
				230					235					240
Thr	His	Tyr	Pro	Lys	Pro	Ser	Glu	Thr	Ser	Val	Val	Cys	Gln	Trp
				245					250					255
Ile	Ile	Arg	Val	Asn	Gln	Gly	Leu	Ser	Ile	Lys	Leu	Ser	Phe	Asp
				260					265					270
Asp	Phe	Asn	Thr	Tyr	Tyr	Thr	Asp	Ile	Leu	Asp	Ile	Tyr	Glu	Gly
				275					280					285
Val	Gly	Ser	Ser	Lys	Ile	Leu	Arg	Ala	Ser	Ile	Trp	Glu	Thr	Asn
				290					295					300
Pro	Gly	Thr	Ile	Arg	Ile	Phe	Ser	Asn	Gln	Val	Thr	Ala	Thr	Phe
				305					310					315
Leu	Ile	Glu	Ser	Asp	Glu	Ser	Asp	Tyr	Val	Gly	Phe	Asn	Ala	Thr
				320					325					330
Tyr	Thr	Ala	Phe	Asn	Ser	Ser	Glu	Leu	Asn	Asn	Tyr	Glu	Lys	Ile
				335					340					345
Asn	Cys	Asn	Phe	Glu	Asp	Gly	Phe	Cys	Phe	Trp	Val	Gln	Asp	Leu
				350					355					360
Asn	Asp	Asp	Asn	Glu	Trp	Glu	Arg	Ile	Gln	Gly	Ser	Thr	Phe	Ser
				365					370					375
Pro	Phe	Thr	Gly	Pro	Asn	Phe	Asp	His	Thr	Phe	Gly	Asn	Ala	Ser

	380		385		390
Gly Phe Tyr Ile	Ser Thr Pro Thr Gly	Pro Gly Gly Arg Gln	Glu		
	395		400		405
Arg Val Gly Leu	Leu Ser Leu Pro Leu	Asp Pro Thr Leu Glu	Pro		
	410		415		420
Ala Cys Leu Ser	Phe Trp Tyr His Met	Tyr Gly Glu Asn Val	His		
	425		430		435
Lys Leu Ser Ile	Asn Ile Ser Asn Asp	Gln Asn Met Glu Lys	Thr		
	440		445		450
Val Phe Gln Lys	Glu Gly Asn Tyr Gly	Asp Asn Trp Asn Tyr	Gly		
	455		460		465
Gln Val Thr Leu	Asn Glu Thr Val Lys	Phe Lys Val Ala Phe	Asn		
	470		475		480
Ala Phe Lys Asn	Lys Ile Leu Ser Asp	Ile Ala Leu Asp Asp	Ile		
	485		490		495
Ser Leu Thr Tyr	Gly Ile Cys Asn Gly	Ser Leu Tyr Pro Glu	Pro		
	500		505		510
Thr Leu Val Pro	Thr Pro Pro Pro Glu	Leu Pro Thr Asp Cys	Gly		
	515		520		525
Gly Pro Phe Glu	Leu Trp Glu Pro Asn	Thr Thr Phe Ser Ser	Thr		
	530		535		540
Asn Phe Pro Asn	Ser Tyr Pro Asn Leu	Ala Phe Cys Val Trp	Ile		
	545		550		555
Leu Asn Ala Gln	Lys Gly Lys Asn Ile	Gln Leu His Phe Gln	Glu		
	560		565		570
Phe Asp Leu Glu	Asn Ile Asn Asp Val	Val Glu Ile Arg Asp	Gly		
	575		580		585
Glu Glu Ala Asp	Ser Leu Leu Leu Ala	Val Tyr Thr Gly Pro	Gly		
	590		595		600
Pro Val Lys Asp	Val Phe Ser Thr Thr	Asn Arg Met Thr Val	Leu		
	605		610		615
Leu Ile Thr Asn	Asp Val Leu Ala Arg	Gly Gly Phe Lys Ala	Asn		
	620		625		630
Phe Thr Thr Gly	Tyr His Leu Gly Ile	Pro Glu Pro Cys Lys	Ala		
	635		640		645
Asp His Phe Gln	Cys Lys Asn Gly Glu	Cys Val Pro Leu Val	Asn		
	650		655		660
Leu Cys Asp Gly	His Leu His Cys Glu	Asp Gly Ser Asp Glu	Ala		
	665		670		675
Asp Cys Val Arg	Phe Phe Asn Gly Thr	Thr Asn Asn Asn Gly	Leu		
	680		685		690
Val Arg Phe Arg	Ile Gln Ser Ile Trp	His Thr Ala Cys Ala	Glu		
	695		700		705
Asn Trp Thr Thr	Gln Ile Ser Asn Asp	Val Cys Gln Leu Leu	Gly		
	710		715		720
Leu Gly Ser Gly	Asn Ser Ser Lys Pro	Ile Phe Ser Thr Asp	Gly		
	725		730		735
Gly Pro Phe Val	Lys Leu Asn Thr Ala	Pro Asp Gly His Leu	Ile		
	740		745		750
Leu Thr Pro Ser	Gln Gln Cys Leu Gln	Asp Ser Leu Ile Arg	Leu		
	755		760		765
Gln Cys Asn His	Lys Ser Cys Gly Lys	Lys Leu Ala Ala Gln	Asp		
	770		775		780
Ile Thr Pro Lys	Ile Val Gly Gly Ser	Asn Ala Lys Glu Gly	Ala		
	785		790		795
Trp Pro Trp Val	Val Gly Leu Tyr Tyr	Gly Gly Arg Leu Leu	Cys		
	800		805		810
Gly Ala Ser Leu	Val Ser Ser Asp Trp	Leu Val Ser Ala Ala	His		
	815		820		825

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Cys Val Tyr Gly Arg	Asn Leu Glu Pro	Ser Lys Trp Thr Ala Ile	830	835	840
Leu Gly Leu His Met	Lys Ser Asn Leu Thr	Ser Pro Gln Thr Val	845	850	855
Pro Arg Leu Ile Asp	Glu Ile Val Ile Asn	Pro His Tyr Asn Arg	860	865	870
Arg Arg Lys Asp Asn	Asp Ile Ala Met Met	His Leu Glu Phe Lys	875	880	885
Val Asn Tyr Thr Asp	Tyr Ile Gln Pro Ile	Cys Leu Pro Glu Glu	890	895	900
Asn Gln Val Phe Pro	Pro Gly Arg Asn Cys	Ser Ile Ala Gly Trp	905	910	915
Gly Thr Val Val Tyr	Gln Gly Thr Thr Ala	Asn Ile Leu Gln Glu	920	925	930
Ala Asp Val Pro Leu	Leu Ser Asn Glu Arg	Cys Gln Gln Gln Met	935	940	945
Pro Glu Tyr Asn Ile	Thr Glu Asn Met Ile	Cys Ala Gly Tyr Glu	950	955	960
Glu Gly Gly Ile Asp	Ser Cys Gln Gly Asp	Ser Gly Gly Pro Leu	965	970	975
Met Cys Gln Glu Asn	Asn Arg Trp Phe Leu	Ala Gly Val Thr Ser	980	985	990
Phe Gly Tyr Lys Cys	Ala Leu Pro Asn Arg	Pro Gly Val Tyr Ala	995	1000	1005
Arg Val Ser Arg Phe	Thr Glu Trp Ile Gln	Ser Phe Leu His	1010	1015	

<210> 38
 <211> 535
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g2826367

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Gly Ile Val Thr Ser	Asp Gly Glu Val Leu	Phe Asn Lys Thr Ile	20	25	30	
Met Tyr Lys Pro Pro	Lys Gln Gly Ile Asn	Pro Arg Glu Ala Ala	35	40	45	
Asp His His Ala Glu	Thr Phe Pro Lys Leu	Ile Lys Glu Ala Phe	50	55	60	
Glu Val Val Asp Lys	Asn Glu Ile Asp Leu	Ile Ala Phe Ser Gln	65	70	75	
Gly Pro Gly Leu Gly	Pro Ser Leu Arg Val	Thr Ala Thr Val Ala	80	85	90	
Arg Thr Leu Ser Leu	Thr Leu Lys Lys Pro	Ile Ile Gly Val Asn	95	100	105	
His Cys Ile Ala His	Ile Glu Ile Gly Lys	Leu Thr Thr Glu Ala	110	115	120	
Glu Asp Pro Leu Thr	Leu Tyr Val Ser Gly	Gly Asn Thr Gln Val	125	130	135	
Ile Ala Tyr Val Ser	Lys Lys Tyr Arg Val	Phe Gly Glu Thr Leu	140	145	150	
Asp Ile Ala Val Gly	Asn Cys Leu Asp Gln	Phe Ala Arg Tyr Val	155	160	165	

Asn	Leu	Pro	His	Pro	Gly	Gly	Pro	Tyr	Ile	Glu	Glu	Leu	Ala	Arg	
				170					175					180	
Lys	Gly	Lys	Lys	Leu	Val	Asp	Leu	Pro	Tyr	Thr	Val	Lys	Gly	Met	
				185					190					195	
Asp	Ile	Ala	Phe	Ser	Gly	Leu	Leu	Thr	Ala	Ala	Met	Arg	Ala	Tyr	
				200					205					210	
Asp	Ala	Gly	Glu	Arg	Leu	Glu	Asp	Ile	Cys	Tyr	Ser	Leu	Gln	Glu	
				215					220					225	
Tyr	Ala	Phe	Ser	Met	Leu	Thr	Glu	Ile	Thr	Glu	Arg	Ala	Leu	Ala	
				230					235					240	
His	Thr	Asn	Lys	Gly	Glu	Val	Met	Leu	Val	Gly	Gly	Val	Ala	Ala	
				245					250					255	
Asn	Asn	Arg	Leu	Arg	Glu	Met	Leu	Lys	Ala	Met	Cys	Glu	Gly	Gln	
				260					265					270	
Asn	Val	Asp	Phe	Tyr	Val	Pro	Pro	Lys	Glu	Phe	Cys	Gly	Asp	Asn	
				275					280					285	
Gly	Ala	Met	Ile	Ala	Trp	Leu	Gly	Leu	Leu	Met	His	Lys	Asn	Gly	
				290					295					300	
Arg	Trp	Met	Ser	Leu	Asp	Glu	Thr	Lys	Ile	Ile	Pro	Asn	Tyr	Arg	
				305					310					315	
Thr	Asp	Met	Val	Glu	Val	Asn	Trp	Ile	Lys	Glu	Ile	Lys	Gly	Lys	
				320					325					330	
Lys	Arg	Lys	Ile	Pro	Glu	His	Leu	Ile	Gly	Lys	Gly	Ala	Glu	Ala	
				335					340					345	
Asp	Ile	Lys	Arg	Asp	Ser	Tyr	Leu	Asp	Phe	Asp	Val	Ile	Ile	Lys	
				350					355					360	
Glu	Arg	Val	Lys	Lys	Gly	Tyr	Arg	Asp	Glu	Arg	Leu	Asp	Glu	Asn	
				365					370					375	
Ile	Arg	Lys	Ser	Arg	Thr	Ala	Arg	Glu	Ala	Arg	Tyr	Leu	Ala	Leu	
				380					385					390	
Val	Lys	Asp	Phe	Gly	Ile	Pro	Ala	Pro	Tyr	Ile	Phe	Asp	Val	Asp	
				395					400					405	
Leu	Asp	Asn	Lys	Arg	Ile	Met	Met	Ser	Tyr	Ile	Asn	Gly	Lys	Leu	
				410					415					420	
Ala	Lys	Asp	Val	Ile	Glu	Asp	Asn	Leu	Asp	Ile	Ala	Tyr	Lys	Ile	
				425					430					435	
Gly	Glu	Ile	Val	Gly	Lys	Leu	His	Lys	Asn	Asp	Val	Ile	His	Asn	
				440					445					450	
Asp	Leu	Thr	Thr	Ser	Asn	Phe	Ile	Phe	Asp	Lys	Asp	Leu	Tyr	Ile	
				455					460					465	
Ile	Asp	Phe	Gly	Leu	Gly	Lys	Ile	Ser	Asn	Leu	Asp	Glu	Asp	Lys	
				470					475					480	
Ala	Val	Asp	Leu	Ile	Val	Phe	Lys	Lys	Ala	Val	Leu	Ser	Thr	His	
				485					490					495	
His	Glu	Lys	Phe	Asp	Glu	Ile	Trp	Glu	Arg	Phe	Leu	Glu	Gly	Tyr	
				500					505					510	
Lys	Ser	Val	Tyr	Asp	Arg	Trp	Glu	Ile	Ile	Leu	Glu	Leu	Met	Lys	
				515					520					525	
Asp	Val	Glu	Arg	Arg	Ala	Arg	Tyr	Val	Glu						
				530					535						

<210> 39
 <211> 496
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> GenBank ID No: g431321

<400> 39

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Pro	Trp	Ala	Thr	Ile	Ala	Leu	Arg	Pro	Ala	Leu	Arg	Ala	Leu	Gly
				20					25					30
Ser	Leu	His	Leu	Pro	Thr	Asn	Pro	Thr	Ser	Leu	Pro	Ala	Val	Ala
				35					40					45
Lys	Asn	Tyr	Ser	Val	Leu	Tyr	Phe	Gln	Gln	Lys	Val	Asp	His	Phe
				50					55					60
Gly	Phe	Asn	Thr	Val	Lys	Thr	Phe	Asn	Gln	Arg	Tyr	Leu	Val	Ala
				65					70					75
Asp	Lys	Tyr	Trp	Lys	Lys	Asn	Gly	Gly	Ser	Ile	Leu	Phe	Tyr	Thr
				80					85					90
Gly	Asn	Glu	Gly	Asp	Ile	Ile	Trp	Phe	Cys	Asn	Asn	Thr	Gly	Phe
				95					100					105
Met	Trp	Asp	Val	Ala	Glu	Glu	Leu	Lys	Ala	Met	Leu	Val	Phe	Ala
				110					115					120
Glu	His	Arg	Tyr	Tyr	Gly	Glu	Ser	Leu	Pro	Phe	Gly	Asp	Asn	Ser
				125					130					135
Phe	Lys	Asp	Ser	Arg	His	Leu	Asn	Phe	Leu	Thr	Ser	Glu	Gln	Ala
				140					145					150
Leu	Ala	Asp	Phe	Ala	Glu	Leu	Ile	Lys	His	Leu	Lys	Arg	Thr	Ile
				155					160					165
Pro	Gly	Ala	Glu	Asn	Gln	Pro	Val	Ile	Ala	Ile	Gly	Gly	Ser	Tyr
				170					175					180
Gly	Gly	Met	Leu	Ala	Ala	Trp	Phe	Arg	Met	Lys	Tyr	Pro	His	Met
				185					190					195
Val	Val	Gly	Ala	Leu	Ala	Ala	Ser	Ala	Pro	Ile	Trp	Gln	Phe	Glu
				200					205					210
Asp	Leu	Val	Pro	Cys	Gly	Val	Phe	Met	Lys	Ile	Val	Thr	Thr	Asp
				215					220					225
Phe	Arg	Lys	Ser	Gly	Pro	His	Cys	Ser	Glu	Ser	Ile	His	Arg	Ser
				230					235					240
Trp	Asp	Ala	Ile	Asn	Arg	Leu	Ser	Asn	Thr	Gly	Ser	Gly	Leu	Gln
				245					250					255
Trp	Leu	Thr	Gly	Ala	Leu	His	Leu	Cys	Ser	Pro	Leu	Thr	Ser	Gln
				260					265					270
Asp	Ile	Gln	His	Leu	Lys	Asp	Trp	Ile	Ser	Glu	Thr	Trp	Val	Asn
				275					280					285
Leu	Ala	Met	Val	Asp	Tyr	Pro	Tyr	Ala	Ser	Asn	Phe	Leu	Gln	Pro
				290					295					300
Leu	Pro	Ala	Trp	Pro	Ile	Lys	Val	Val	Cys	Gln	Tyr	Leu	Lys	Asn
				305					310					315
Pro	Asn	Val	Ser	Asp	Ser	Leu	Leu	Leu	Gln	Asn	Ile	Phe	Gln	Ala
				320					325					330
Leu	Asn	Val	Tyr	Tyr	Asn	Tyr	Ser	Gly	Gln	Val	Lys	Cys	Leu	Asn
				335					340					345
Ile	Ser	Glu	Thr	Ala	Thr	Ser	Ser	Leu	Gly	Thr	Leu	Gly	Trp	Ser
				350					355					360
Tyr	Gln	Ala	Cys	Thr	Glu	Val	Val	Met	Pro	Phe	Cys	Thr	Asn	Gly
				365					370					375
Val	Asp	Asp	Met	Phe	Glu	Pro	His	Ser	Trp	Asn	Leu	Lys	Glu	Leu
				380					385					390
Ser	Asp	Asp	Cys	Phe	Gln	Gln	Trp	Gly	Val	Arg	Pro	Arg	Pro	Ser
				395					400					405
Trp	Ile	Thr	Thr	Met	Tyr	Gly	Gly	Lys	Asn	Ile	Ser	Ser	His	Thr
				410					415					420
Asn	Ile	Val	Phe	Ser	Asn	Gly	Glu	Leu	Asp	Pro	Trp	Ser	Gly	Gly
				425					430					435

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Gly	Val	Thr	Lys	Asp	Ile	Thr	Asp	Thr	Leu	Val	Ala	Val	Thr	Ile
				440					445					450
Ser	Glu	Gly	Ala	His	His	Leu	Asp	Leu	Arg	Thr	Lys	Asn	Ala	Leu
				455					460					465
Asp	Pro	Met	Ser	Val	Leu	Leu	Ala	Arg	Ser	Leu	Glu	Val	Arg	His
				470					475					480
Met	Lys	Asn	Trp	Ile	Arg	Asp	Phe	Tyr	Asp	Ser	Ala	Gly	Lys	Gln
				485					490					495
His														